

Listing of Claims

The following listing of claims will replace all prior versions, and listings, of claims in the subject application:

1. (currently amended) A facsimile use modem apparatus, comprising:

an analog interface formed from a silicon data access arrangement operative to interface with an analog telephone line, said analog interface including an insulation device configured to insulate a remainder of said facsimile use modem apparatus from said analog telephone line;

a digital interface operative to interface with an ISDN (integrated services digital network) line and configured for G3 communications through the ISDN line;

a signal converting device configured to convert a modem signal used in facsimile communications via the analog telephone line into a first signal used in the ISDN line, and convert a second signal from the ISDN line into a converted signal for use in facsimile communications via the analog telephone line;

a monitoring device located within the silicon data access arrangement and configured for monitoring a progress of the facsimile communications via the ISDN line; and

a data transmitting device operative to transmit linear data to a speaker via the silicon data access arrangement,

wherein said monitoring device located within the silicon data access arrangement is configured for monitoring G3 communications executed through the ISDN line.

2. (previously presented) The facsimile use modem apparatus according to claim 1, wherein said linear data is formed from facsimile sending data and facsimile reception data.

3. (previously presented) The facsimile use modem apparatus according to claim 2, further comprising a volume adjusting device configured to multiply each of the facsimile sending data and facsimile reception data by a prescribed gain when a volume of the speaker is adjusted.

4. (original) The facsimile use modem apparatus according to claim 1, further comprising a data canceling device configured to cancel excessive facsimile communications data when a clock of the ISDN line is faster than that of the modem.

5. (original) The facsimile use modem apparatus according to claim 4, further comprising a noise suppressing device operative to suppress noises output from the speaker by repeatedly using a previous data when the clock of the ISDN line is slower than that of the modem.

6. (original) The facsimile use modem apparatus according to claim 2, wherein said silicon data access arrangement, speaker, and ISDN interface collectively form a network control unit of the facsimile.

7. (currently amended) A facsimile apparatus including a facsimile use modem comprising:

an analog interface formed from a silicon data access arrangement operative to interface with an analog telephone line, said analog interface including an insulation device configured to

insulate a remainder of said facsimile use modem apparatus from said analog telephone line;

a digital interface operative to interface with an ISDN (integrated services digital network) line and configured for G3 communications through the ISDN line;

a signal converting device configured to convert a modem signal used in facsimile communications via the analog telephone line into a first signal used in the ISDN line, and convert a second signal from the ISDN line into a converted signal for use in facsimile communications via the analog telephone line;

a monitoring device located within the silicon data access arrangement and configured for monitoring a progress of the facsimile communications via the ISDN line; and

a data transmitting device operative to transmit linear data to a speaker via the silicon data access arrangement,

wherein said monitoring device located within the silicon data access arrangement is configured for monitoring G3 communications executed through the ISDN line.

8. (currently amended) A network connecting a facsimile apparatus having a facsimile use modem comprising:

an analog interface formed from a silicon data access arrangement operative to interface with an analog telephone line, said analog interface including an insulation device configured to insulate a remainder of said facsimile use modem apparatus from said analog telephone line;

a digital interface operative to interface with an ISDN (integrated services digital network) line and configured for G3 communications through the ISDN line;

a signal converting device configured to convert a modem signal used in facsimile communications via the analog telephone line into a first signal used in the ISDN line, and

convert a second signal from the ISDN line into a converted signal for use in facsimile communications via the analog telephone line;

a monitoring device located within the silicon data access arrangement and configured for monitoring a progress of the facsimile communications via the ISDN line; and

a data transmitting device operative to transmit linear data to a speaker via the silicon data access arrangement,

wherein said monitoring device located within the silicon data access arrangement is configured for monitoring G3 communications executed through the ISDN line.

9. (previously presented) The facsimile use modem apparatus according to claim 1, wherein said signal converting device includes a DSP section, and said DSP section converts a facsimile transmission signal or facsimile reception signal to generate the linear data supplied to the speaker.

10. (previously presented) The network connecting the facsimile apparatus having the facsimile use modem according to claim 8, wherein said linear data is formed from facsimile sending data and facsimile reception data.

11. (previously presented) The network connecting the facsimile apparatus having the facsimile use modem according to claim 10, wherein the facsimile use modem further comprises a volume adjusting device configured to multiply each of the facsimile sending data and facsimile reception data by a prescribed gain when a volume of the speaker is adjusted.

12. (previously presented) The network connecting the facsimile apparatus having the facsimile use modem according to claim 8, wherein the facsimile use modem further comprises a data canceling device configured to cancel excessive facsimile communications data when a clock of the ISDN line is faster than that of the modem.

13. (previously presented) The network connecting the facsimile apparatus having the facsimile use modem according to claim 12, wherein the facsimile use modem further comprises a noise suppressing device operative to suppress noises output from the speaker by repeatedly using a previous data when the clock of the ISDN line is slower than that of the modem.

14. (previously presented) The network connecting the facsimile apparatus having the facsimile use modem according to claim 10, wherein said silicon data access arrangement, speaker, and ISDN interface collectively form a network control unit of the facsimile.

15. (previously presented) The facsimile apparatus having the facsimile use modem according to claim 7, wherein said linear data is formed from facsimile sending data and facsimile reception data.

16. (previously presented) The facsimile apparatus having the facsimile use modem according to claim 15, wherein the facsimile use modem further comprises a volume adjusting device configured to multiply each of the facsimile sending data and facsimile reception data by a prescribed gain when a volume of the speaker is adjusted.

17. (previously presented) The facsimile apparatus having the facsimile use modem according to claim 7, wherein the facsimile use modem further comprises a data canceling device configured to cancel excessive facsimile communications data when a clock of the ISDN line is faster than that of the modem.

18. (previously presented) The network connecting the facsimile apparatus having the facsimile use modem according to claim 17, wherein the facsimile use modem further comprises a noise suppressing device operative to suppress noises output from the speaker by repeatedly using a previous data when the clock of the ISDN line is slower than that of the modem.

19. (previously presented) The network connecting the facsimile apparatus having the facsimile use modem according to claim 15, wherein said silicon data access arrangement, speaker, and ISDN interface collectively form a network control unit of the facsimile.